

Creating an Environment of Innovation Texas A&M University at Qatar Research Showcase

April 23, 2015



**G. P. “Bud” Peterson
President**

About Georgia Tech



**Top 10 Public Research University in the U.S.
for a Decade (*U.S. News & World Report*)**

23,000 students

\$730M in Research Expenditures

Outstanding programs in

Architecture

Computing

Engineering (in the Top 5 in the nation)

Sciences

Scheller College of Business

Ivan Allen College of Liberal Arts



Global presence and impact

48% of undergraduates have an international
experience before graduation

Campus in France, global centers in China,
Singapore, Costa Rica, and Panama

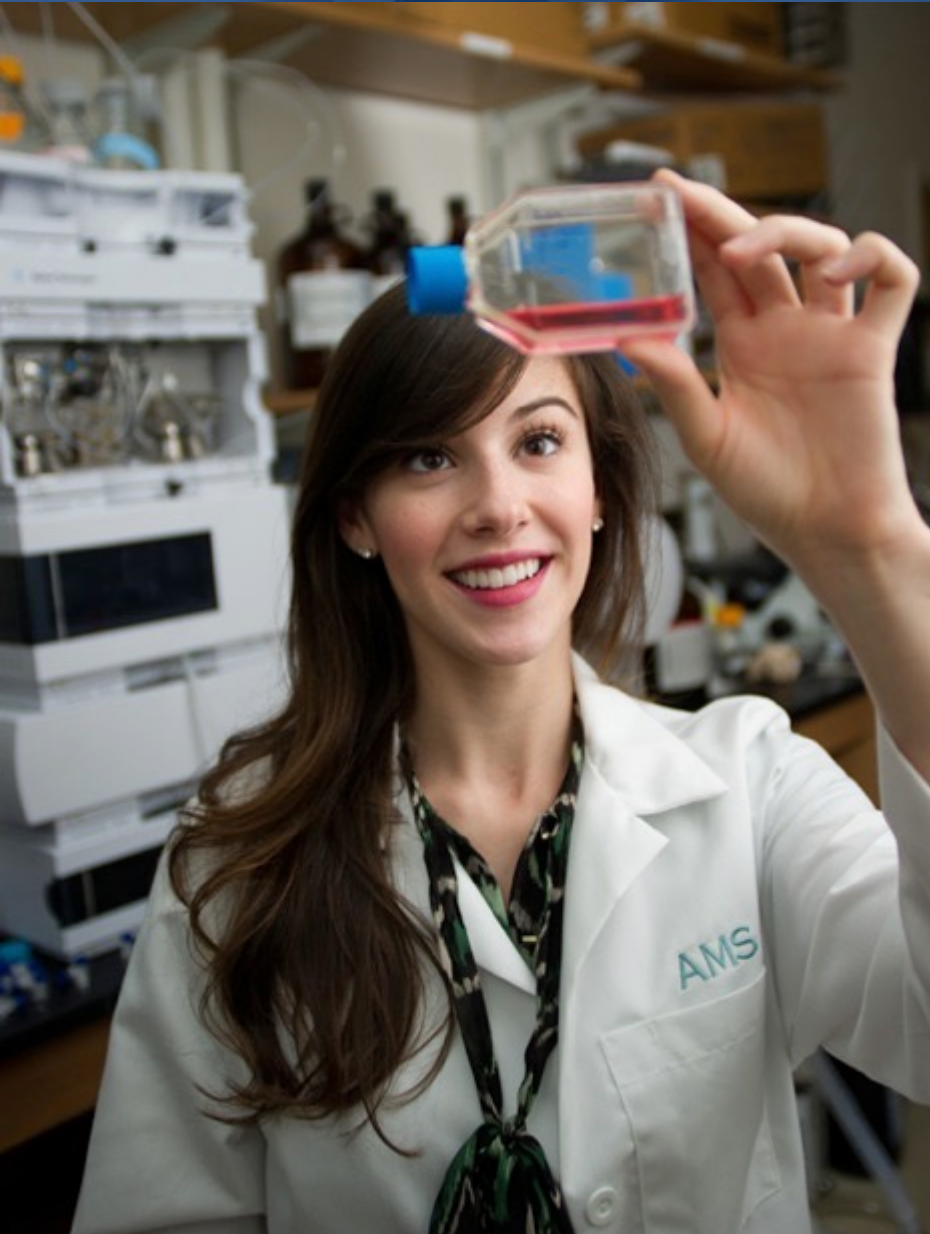


Leadership and Innovation



- Students from 50 states, 87 countries
- Many are already engaged in leadership activities before coming to campus
- 400 student organizations
- Grand Challenges living-learning communities
- Innovation as part of curriculum
- Numerous student competitions to promote entrepreneurial confidence
- Collaboration with business and industry

Innovative Learning Approaches



Collaborative

Interdisciplinary

Online Courses and
Programs (OMS-CS)

“Flipped” Classrooms

Emphasis on
Undergraduate Research

Service Learning

Global Challenges

Student Innovation Programs

Capstone Design

Convergence Challenge

Invention Studio

Master of **Biomedical
Innovation and
Development**

Scheller College of Business
Startup Competition

Startup Summer



2015 InVenture Prize Finals April 1

- 1st Place FlameTech Grill Defender
- 2nd OculoStaple
- People's Choice – Haplit
- InVenture Challenge @Georgia High Schools
- CREATE-X introduced to build entrepreneurial confidence



Last Year's InVenture Prize Winners

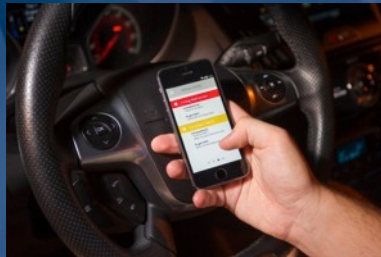


1st Prize:

- \$20,000
- Free licensing
- Flashpoint



Institute-wide Effort to Foster Entrepreneurship – the FIXD Story



- **Began working on it through StartupLab**
- **Completed Startup Summer, 12-week startup internship**
- **Seed funding through Kickstarter**
- **Won Cisco's "Internet of Everything" Challenge for 2015**
- **Launching full product release in May**

Tech Square



An innovation district where new start-up ventures, large companies, and higher education collaborate to develop new technologies and impact economic development.

Tech Square “Then” and Today



Momentum in Tech Square



Panasonic
May 2012

ThyssenKrupp
Jan. 2013

AT&T
August 2013

Home Depot
Summer 2014

Coca-Cola
Enterprises
December 2014

Southern Company
Summer 2015

Worldpay
headquarters
by 2016

NCR
headquarters
2017-2018

Innovation Centers



Southern Co. plans Energy Innovation Center at Georgia Tech's Technology Square

© April 3, 2015 | Filed in: Uncategorized

Energy Innovation Center at Georgia Tech's Technology Square in Midtown to develop

Southern said it will seek partnerships with universities in the Southeast to develop and test ideas. Employees' ideas will be among the first tested as part of a companywide competition.

The parent of Georgia Power and other utilities in the Southeast will join a growing number of major corporations that are setting up shop at the Midtown technology hub.

Technology Square, which opened in 2003, is at Fifth and Spring streets, just east of the Downtown Connector. The \$380 million 1.4 million square feet of office, hotel, and retail space.

Momentum in Tech Square



WorldPay confirms \$1M investment in new fintech accelerator at Georgia Tech

Mar 3, 2015, 10:01am EST | **UPDATED:** Mar 3, 2015, 10:24am EST



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Urvaksh Karkaria
Staff Writer-
Atlanta Business Chronicle
Email | Twitter | Google+ | LinkedIn

WorldPay on Tuesday confirmed plans to invest \$1 million to underwrite a financial technology accelerator at the Advanced Technology Development Center (ATDC) at Georgia Tech.

Atlanta Business Chronicle first reported the innovation center plans on Feb. 10

World Pay CEO Tony Catalano made the announcement with Georgia Lt. Gov. Casey Cagle and Georgia Tech officials at an event at the Gold Dome.



Posted January 22, 2015 | Atlanta, GA



Roll out the "orange" carpet for Home Depot, which has officially opened its first-of-its-kind, university-based research and development center at Georgia Tech.

NCR (NYSE: NCR) will relocate to Technology Square, a destination for innovation-driven enterprises lured by the talent and research emerging from engineering hub Georgia Tech.

High Performance Computing



Our Research Strategy

Pursuing a research strategy involving the entire Institute **to maximize economic and societal impact.**

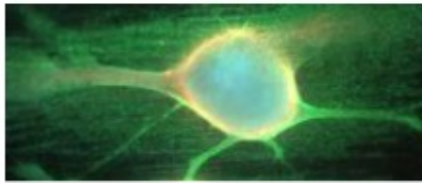
Defined **12 core research areas**

Established a focus on faculty through leadership platforms

Created synergy between academic, research, extension faculty, and related research support functions

Strengthened **external partnerships**

12 Core Research Areas



Bioengineering and
Bioscience



Data Engineering and
Science



Electronics and
Nanotechnology



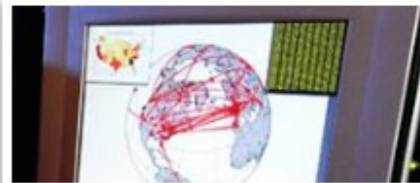
Energy and
Sustainable
Infrastructure



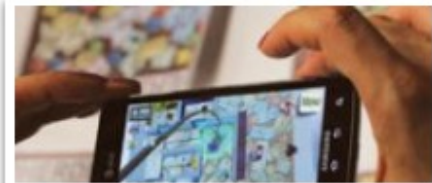
Manufacturing,
Trade, and Logistics



Materials



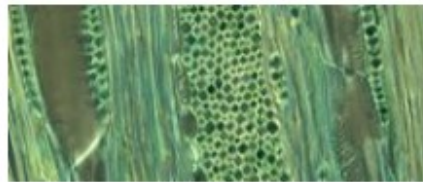
National Security



People and
Technology



Public Service,
Leadership, and
Policy



Renewable
Bioproducts

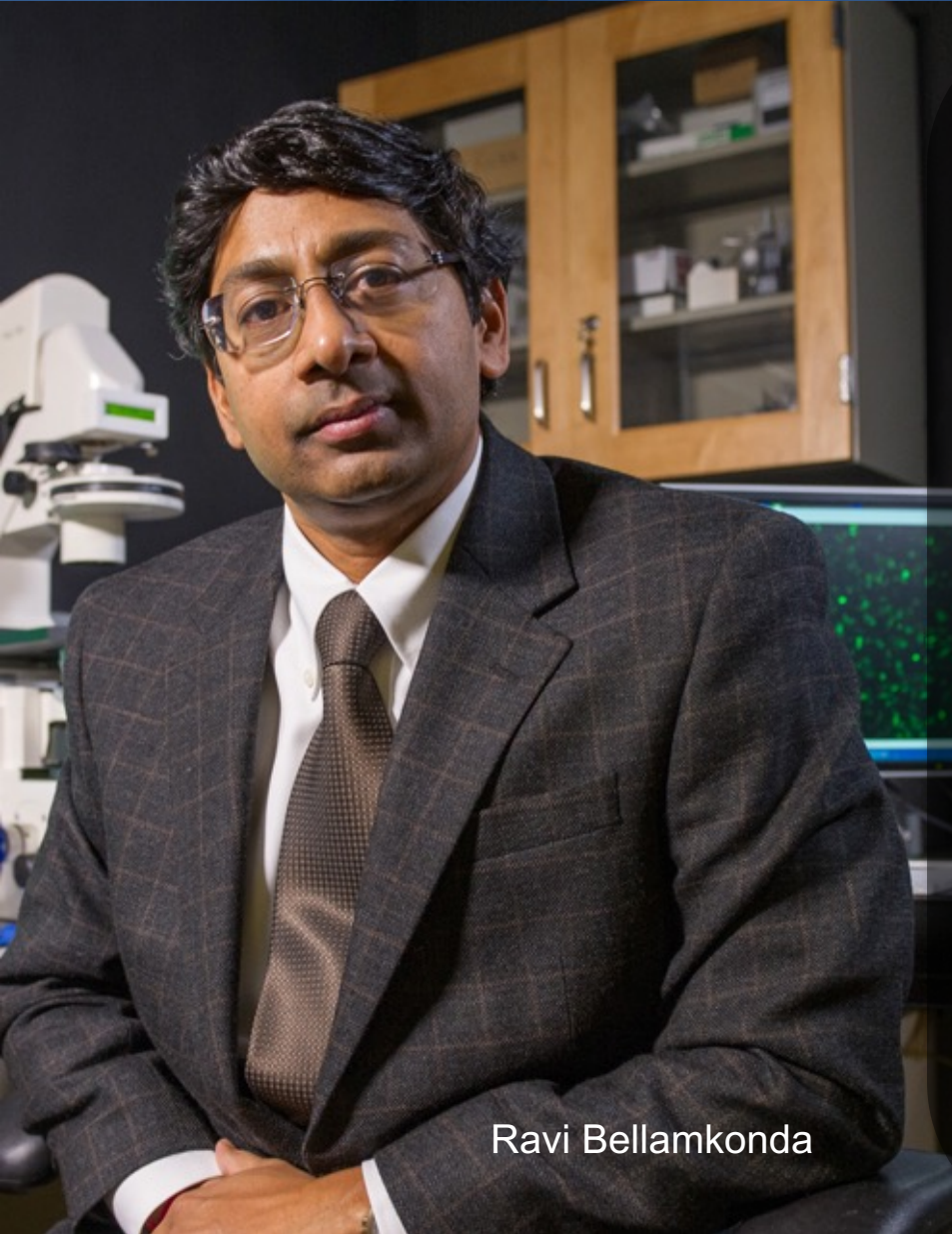


Robotics



Systems

Bioscience at Georgia Tech



Ravi Bellamkonda

A unique blend of engineering, biology, chemistry and computing, along with partnerships such as Emory University and Children's Healthcare, have transformed the campus into a magnet for bio-minded scientists.



M.G. Finn



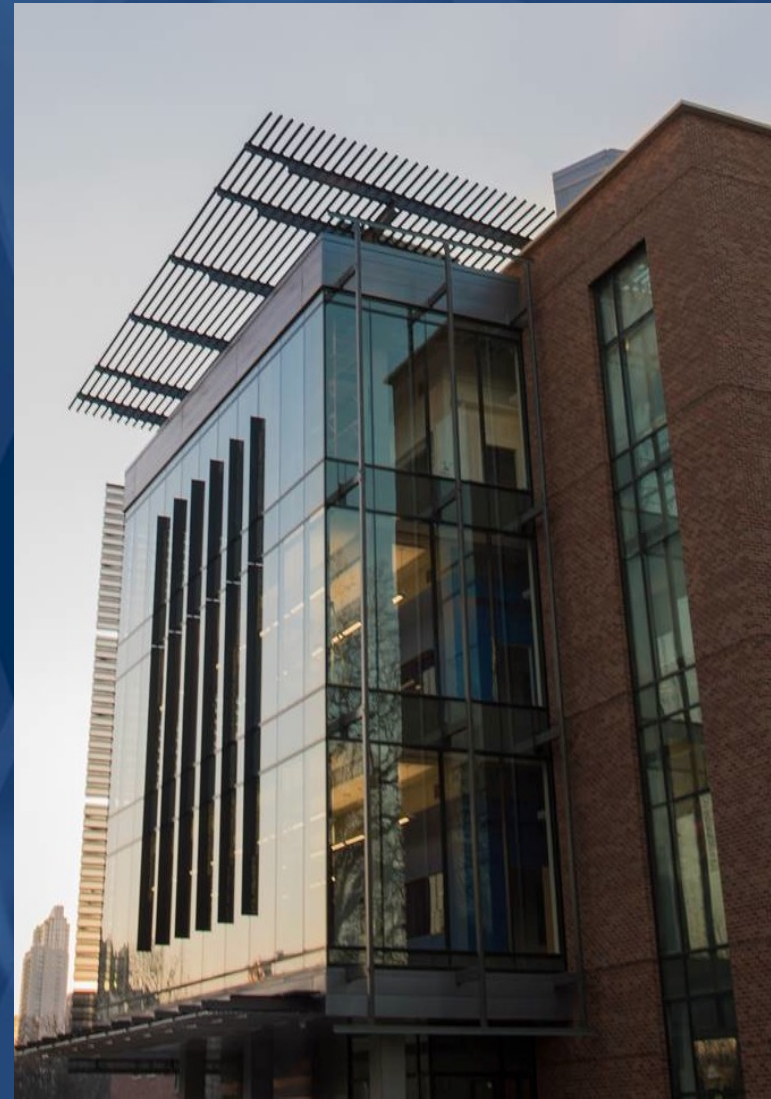
Susan N. Thomas

Engineered Biosystems Building

Made possible through our efforts
to establish partnerships

200,000 square feet

Interdisciplinary hub to foster
collaboration



Your Turn – Questions & Discussion



Spring commencement speakers

